

WHAT IS CLAIMED IS:

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A147 1. A process for controlling a transfer voltage in an image forming apparatus, the image forming apparatus comprising an electrification roller electrifying a surface of a photosensitive drum, a laser scanning unit ("LSU") forming an electrostatic latent image on the surface of the photosensitive drum, a developing machine making the electrostatic latent image visible, a transfer roller transferring the image to a recording paper and a fixer fixing the image transferred to the recording paper, the process comprising the steps of:

storing within a memory image data to be printed if a print demand is received;

detecting the kind of paper selected by a user;

editing by reducing the number of pixels of the image data at a certain rate if the detected paper is a thick; and

transmitting the edited image data to the LSU and performing the printing work for the edited image data.

2. The process according to claim 1, wherein the editing step is performed using Econo mode in which the pixels of the light scanned are equally split into an integer number of pixels in order to represent one pixel of the image data, and only a certain number of pixels among the equally split pixels of the light are scanned.

3. The process according to claim 1, wherein the editing step is performed using Ret

mode in which the print area is split into a plurality of small areas, and some pixels among the total pixels for each resolution included in the respective small areas are removed.

4. A process for controlling a transfer voltage in an image forming apparatus, the image forming apparatus comprising a electrification roller electrifying a surface of a photosensitive drum, a laser scanning unit ("LSU") forming an electrostatic latent image on the surface of the photosensitive drum, a developing machine making the electrostatic latent image visible, a transfer roller transferring the image to a recording paper and a fixer fixing the image transferred to the recording paper, the process comprising the steps of:

storing at a memory image data to be printed if a print demand is received;
detecting the kind of paper selected by a user;
transmitting the image data to the LSU if the detected paper is a thick; and
decreasing the amount of the light emitted from the LSU at a predetermined rate and performing the printing work.

5. A process for controlling a transfer voltage in an image forming apparatus, the image forming apparatus comprising a electrification roller electrifying a surface of a photosensitive drum, a laser scanning unit ("LSU") forming an electrostatic latent image on the surface of the photosensitive drum, a developing machine making the electrostatic latent image visible, a transfer roller transferring the image to a recording paper and a fixer fixing the image transferred to the recording paper, the process comprising the steps of:

storing image data to be printed at a memory if a print demand is received;

6. A process according to claim 5, wherein the predetermined voltage level is equal to or less than -250 V.

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